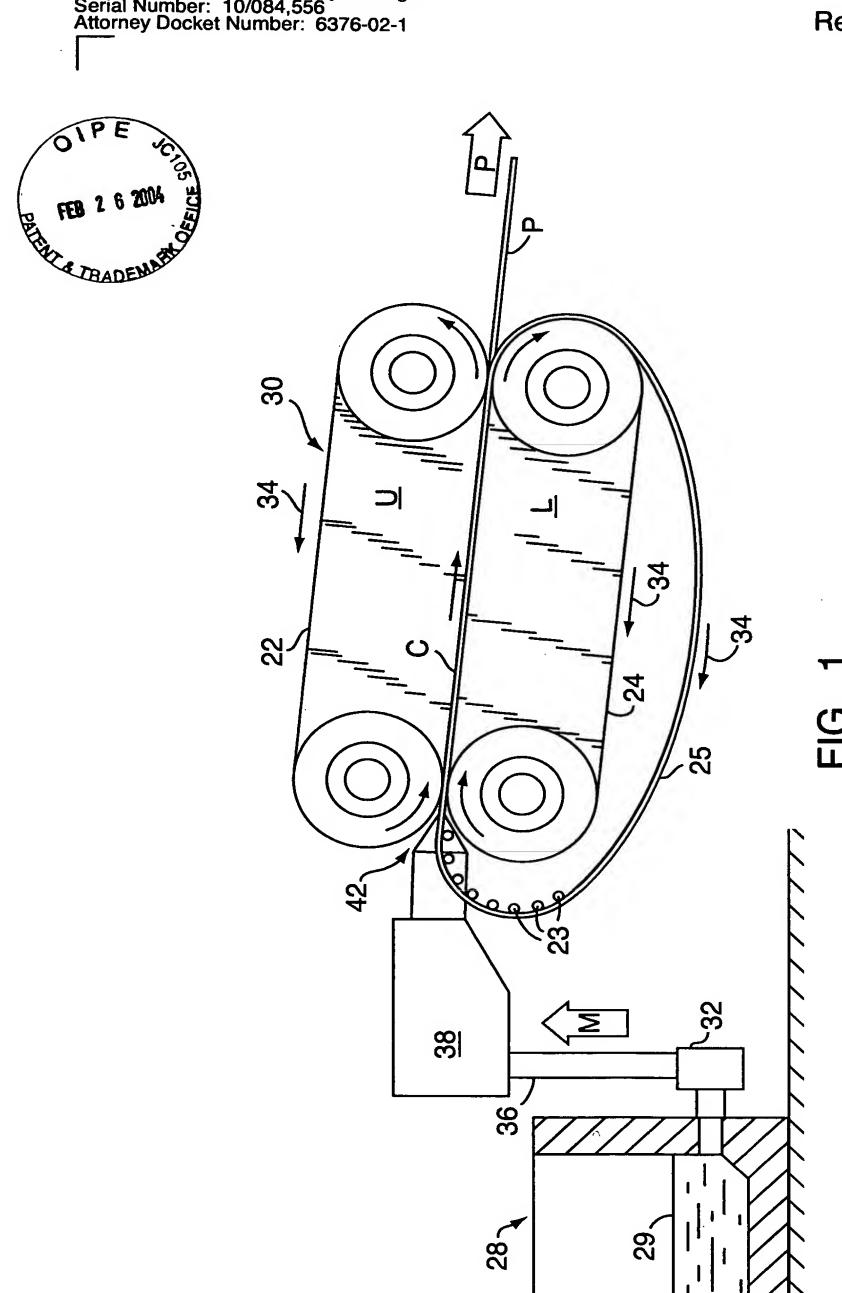
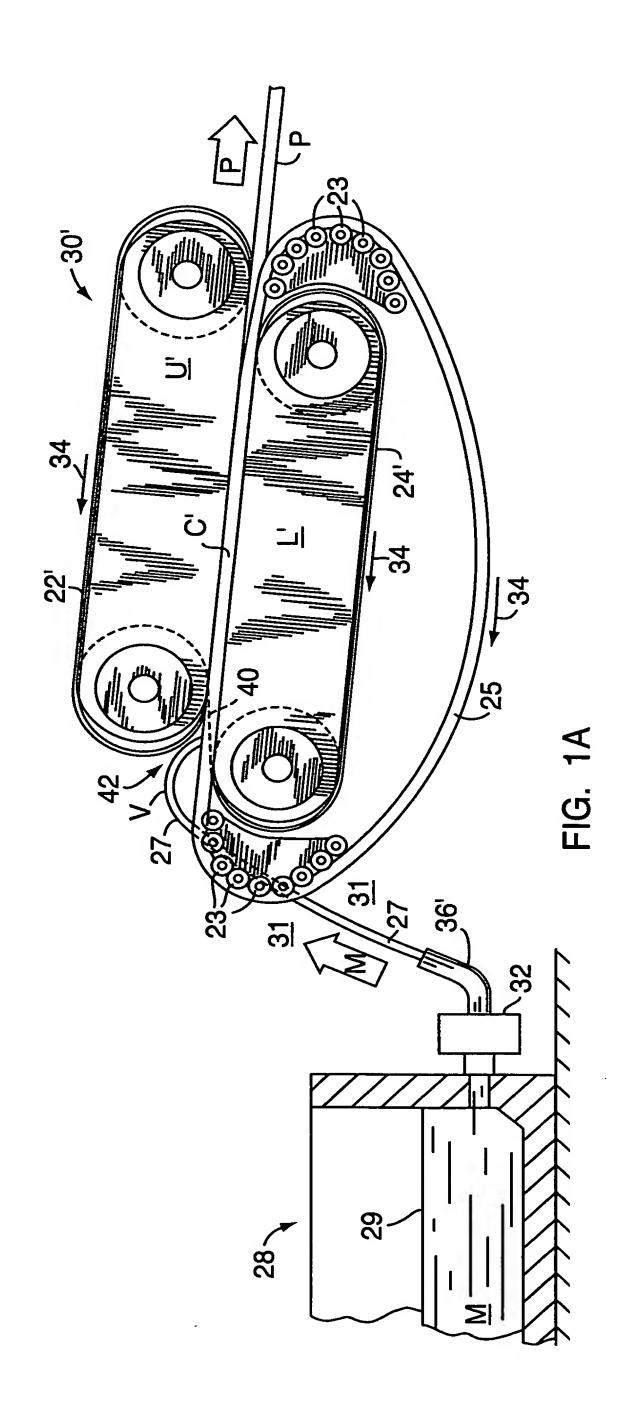
Replacement Sheet



Replacement Sheet





McCormick, Paulding & Huber LLP
Title: METHODS EMPLOYING PERMANENT MAGNETS HAVING REACH-OUT MAGNETIC FIELDS FOR ELECTROMAGNETICALLY PUMPING, BRAKING AND METERING MOLTEN METALS FEEDING INTO CASTING MACHINES
First Named Inventor: Valery G. Kagen
Serial Number: 10/084,556
Attorney Docket Number: 6376-02-1

Replacement Sheet **Replacement Sheet** 3/20 60 B BADEMA 61 32-<u>60'</u> <u>60b</u> 61 **59** <u>56</u> ,64 51 61 63 62 <u>56</u> <u>59</u> 46 **-64** 

gt.

- 78 <sub>47</sub> 60a 60" 43 <u>48</u> 51 617 47 53 58 M 46 <u>59</u> <u>56</u> <u>56</u> 59 60" -61 <u>60c</u> FIG. 2

Replacement Sheet

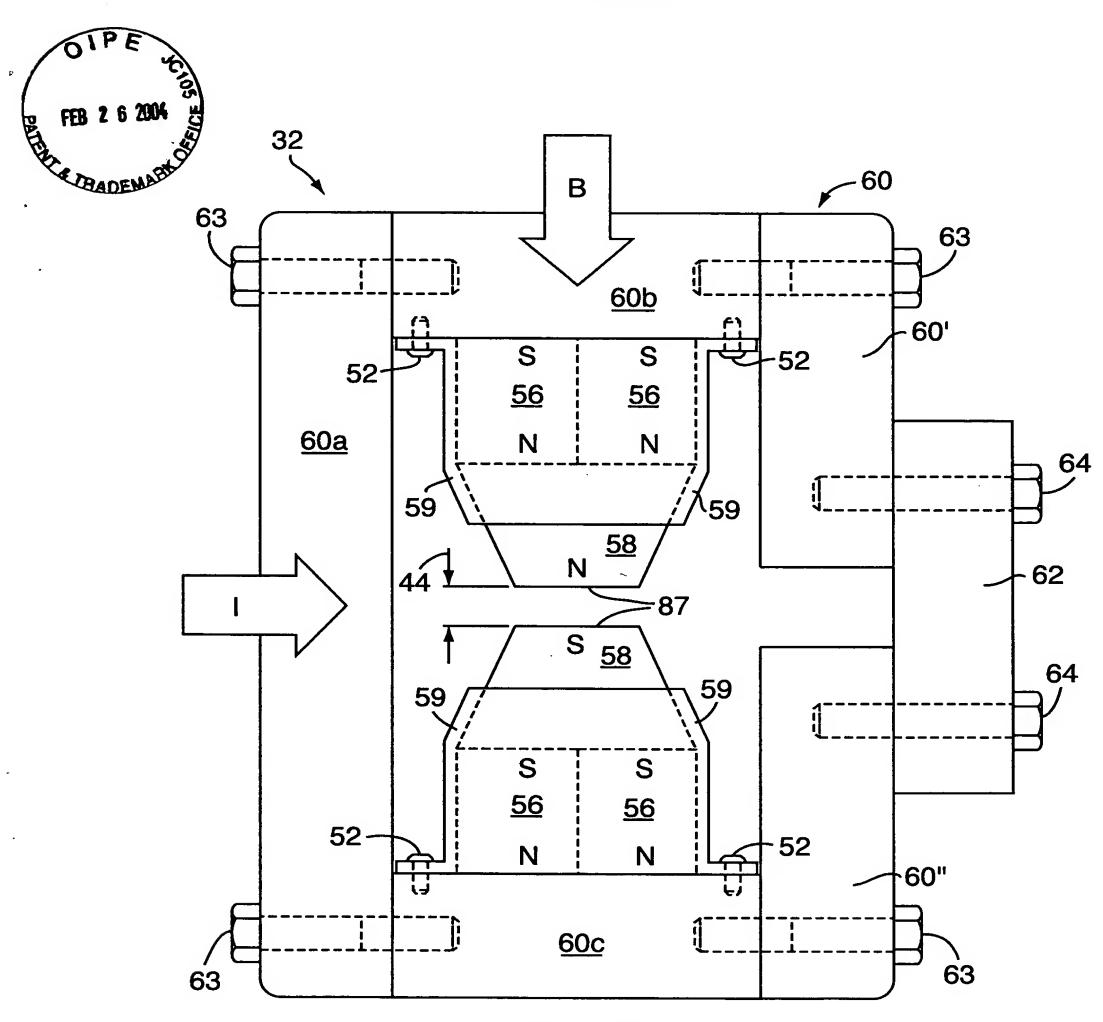
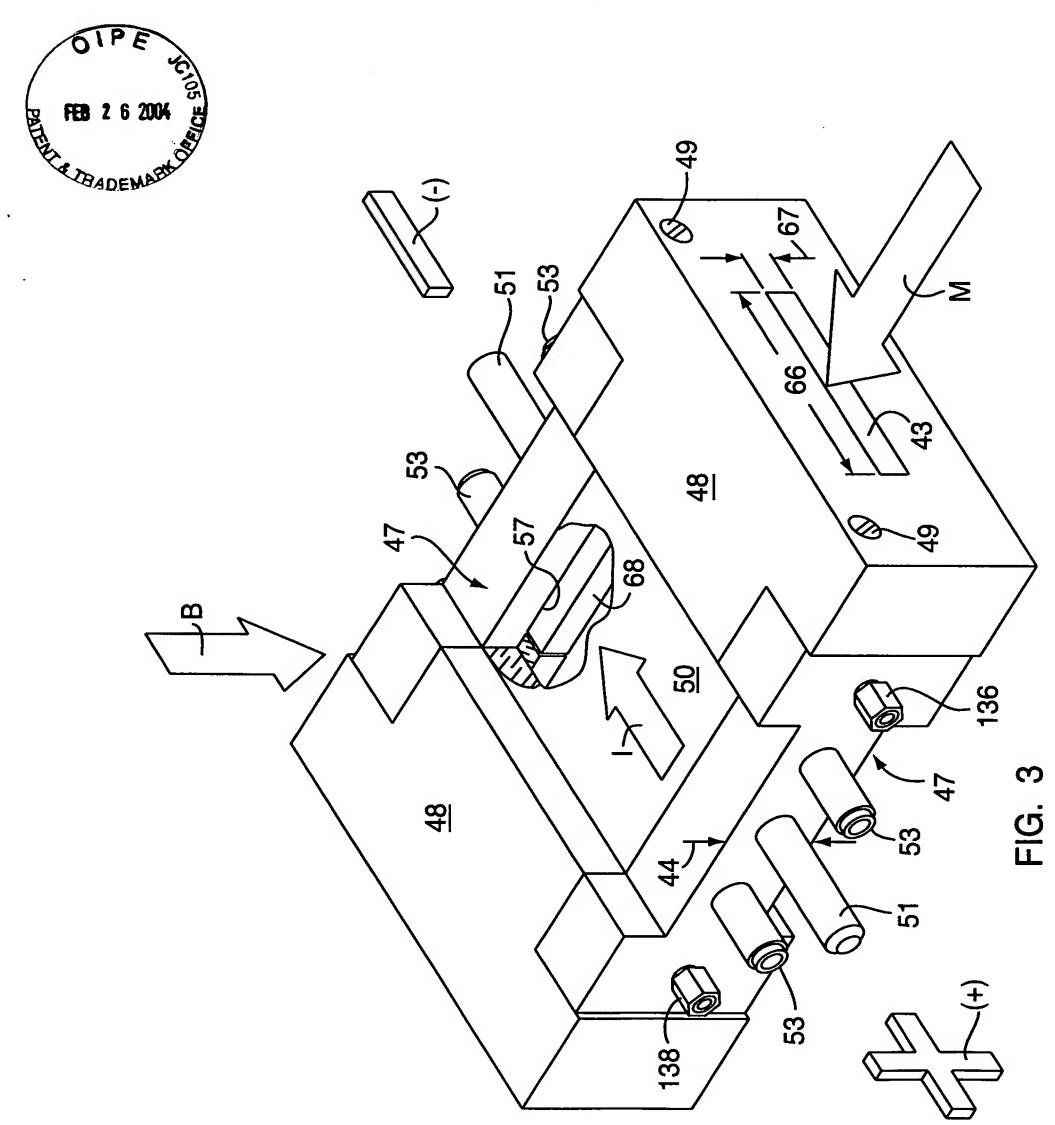


FIG. 2A



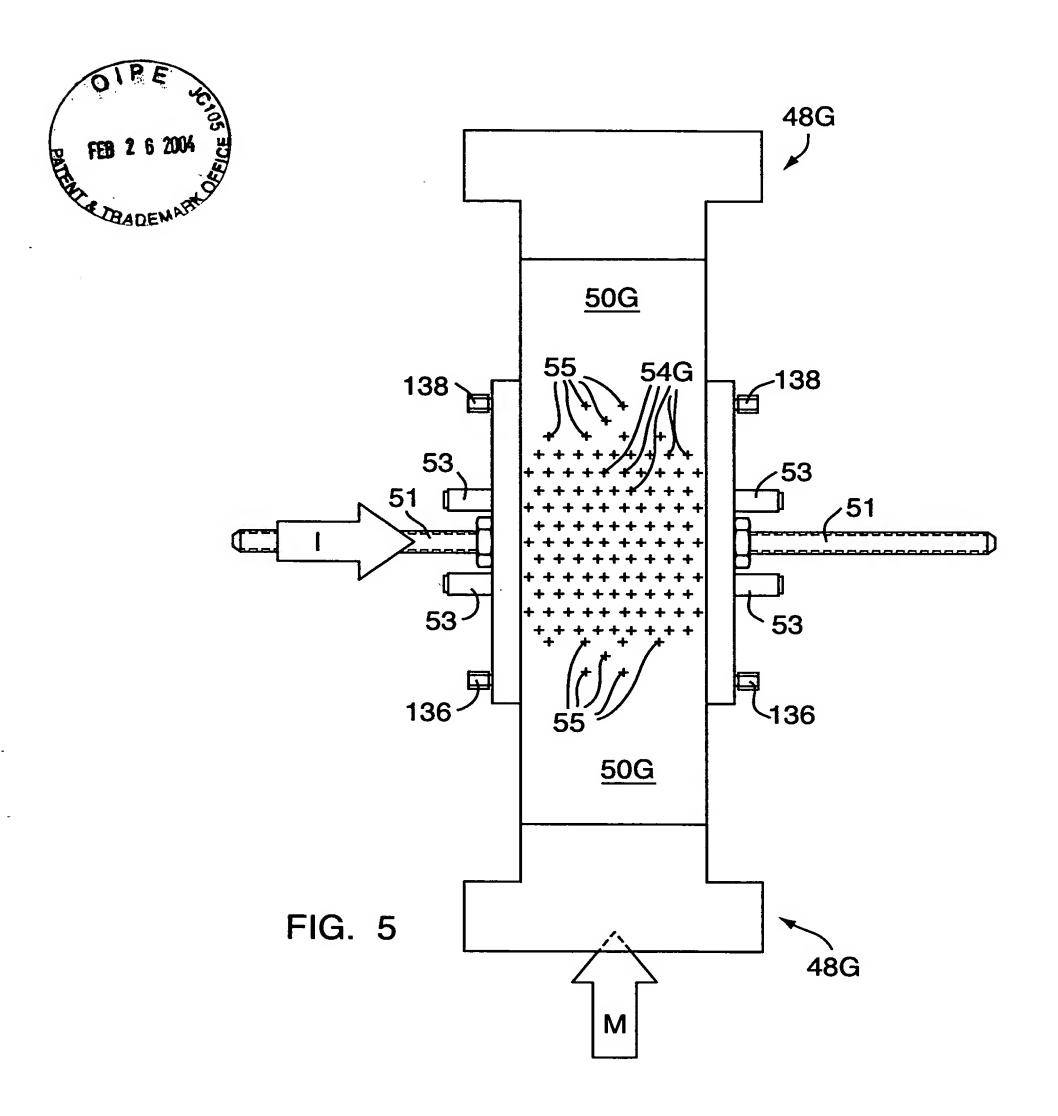
McCormick, Paulding & Huber LLP
Title: METHODS EMPLOYING PERMANENT MAGNETS HAVING REACH-OUT MAGNETIC FIELDS FOR ELECTROMAGNETICALLY PUMPING, BRAKING AND METERING MOLTEN METALS FEEDING INTO CASTING MACHINES
First Named Inventor: Valery G. Kagen
Serial Number: 10/084,556
Attorney Docket Number: 6376-02-1

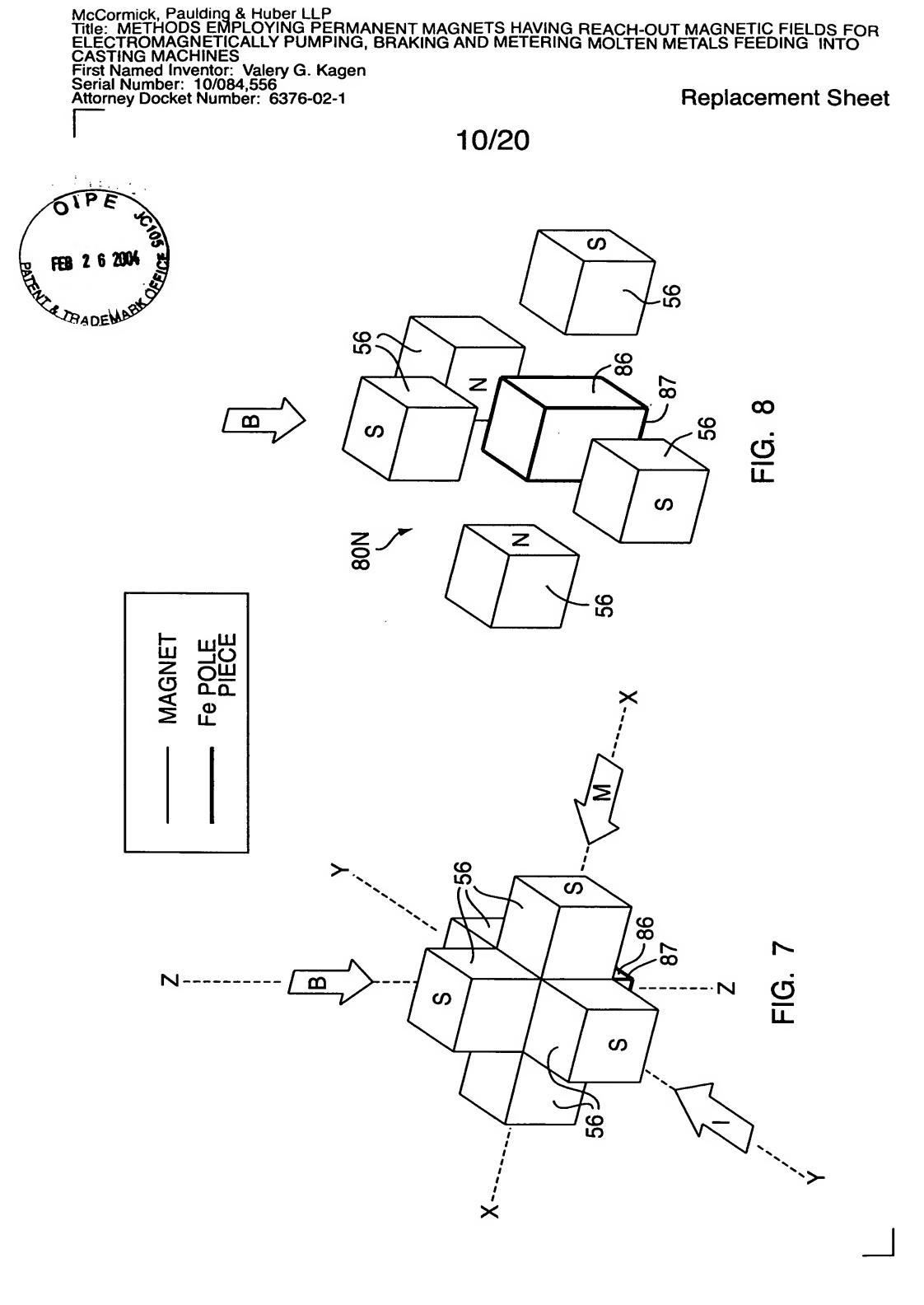
Replacement Sheet Replacement Sheet 6/20 PADEMARK' FEB 2 6 2004 Q 69 134 49 53 **49** Q 5 67 (K) 99 48 **49**" 49" 55 44, 68 48 Q 57 53 49" 49 912 0

McCormick, Paulding & Huber LLP
Title: METHODS EMPLOYING PERMANENT MAGNETS HAVING REACH-OUT MAGNETIC FIELDS FOR
ELECTROMAGNETICALLY PUMPING, BRAKING AND METERING MOLTEN METALS FEEDING INTO
CASTING MACHINES First Named Inventor: Valery G. Kagen Serial Number: 10/084,556 Attorney Docket Number: 6376-02-1 Replacement Sheet 7/20 82 83 OIPE THE TRADEMARY B 32G 78 79 60G 61G 61G 71 60G <u>88</u> 88 74 **108**-61G 88 **77** 76 **75** 50G 66 48G 11 > 53 43 51 136 67 74 M 75 88 <u>88</u> <u>88</u>

FIG. 4

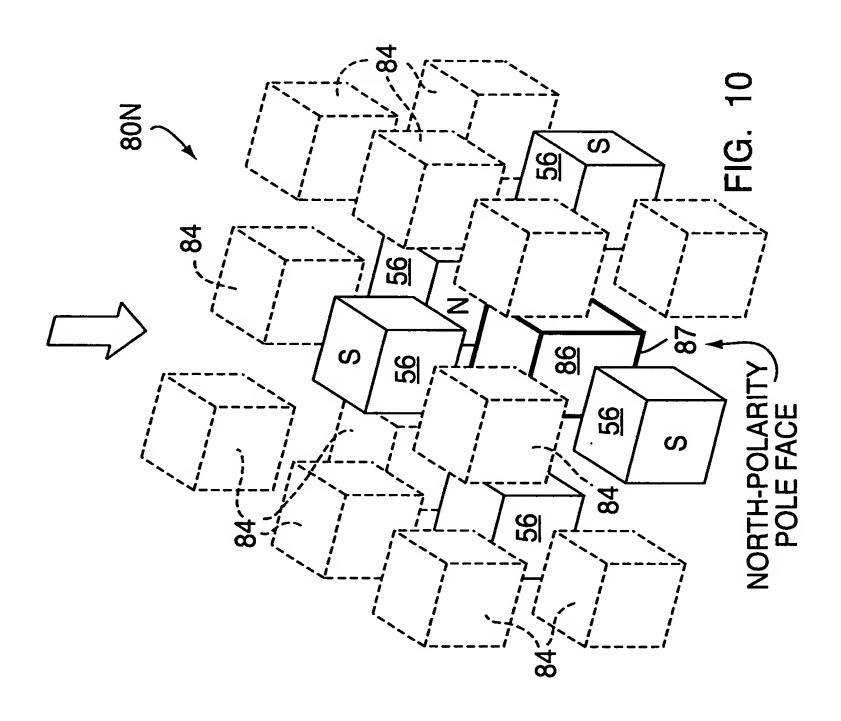
60G

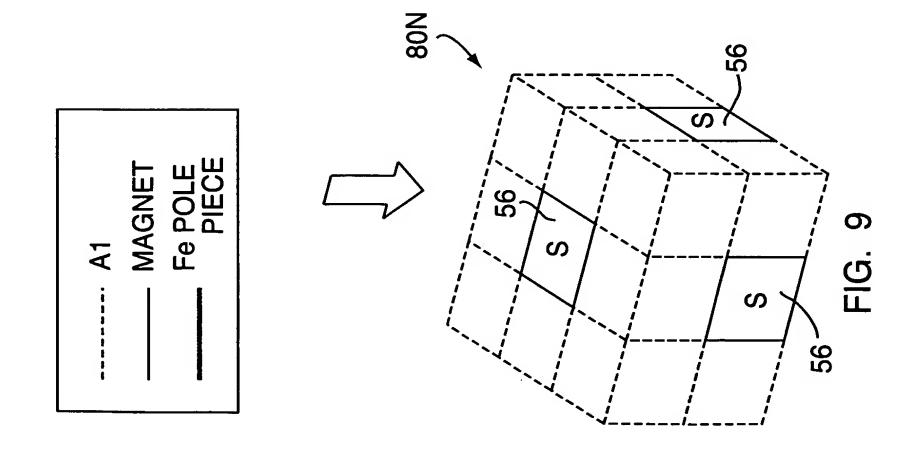


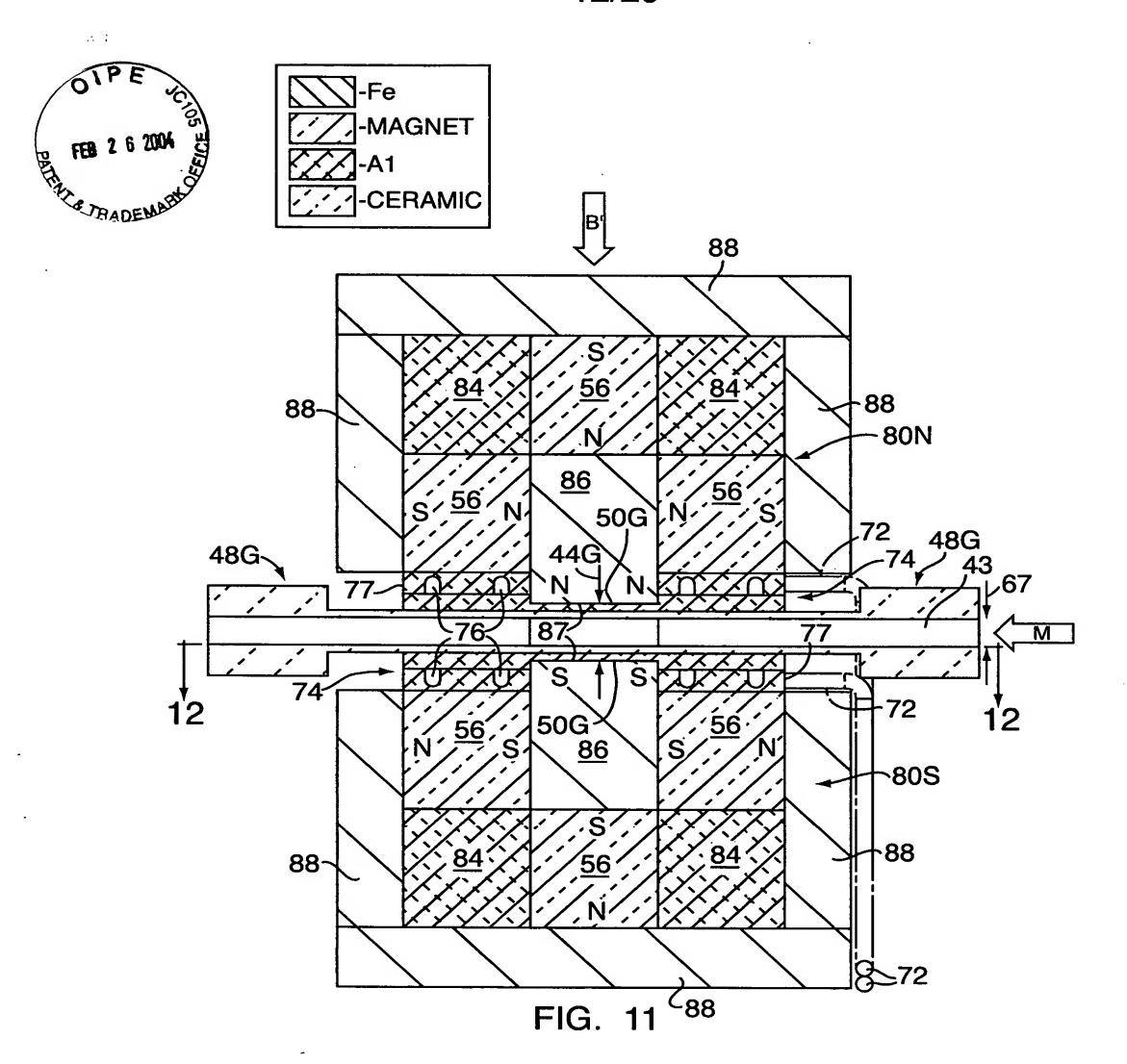


Replacement Sheet

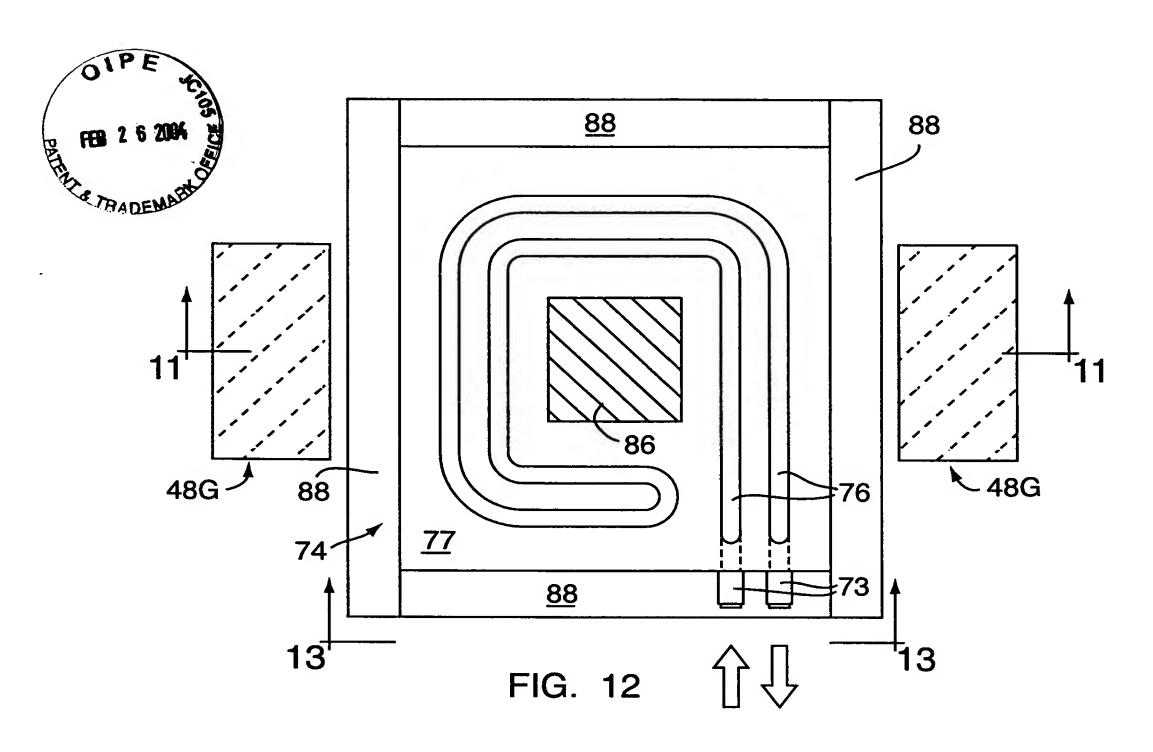


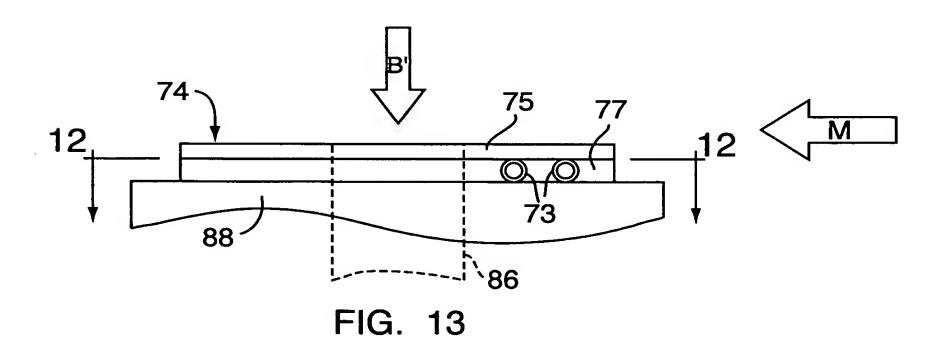






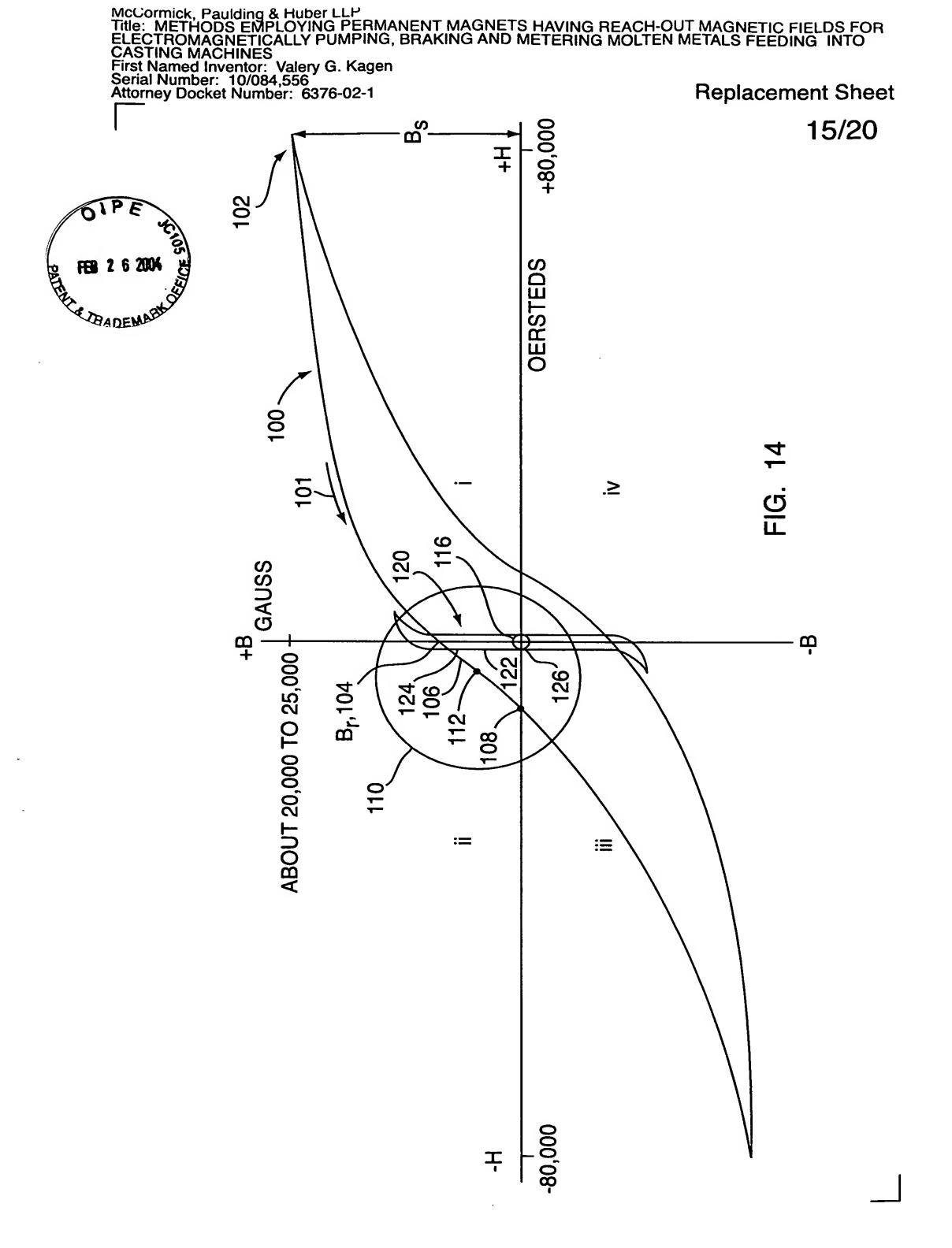
Replacement Sheet



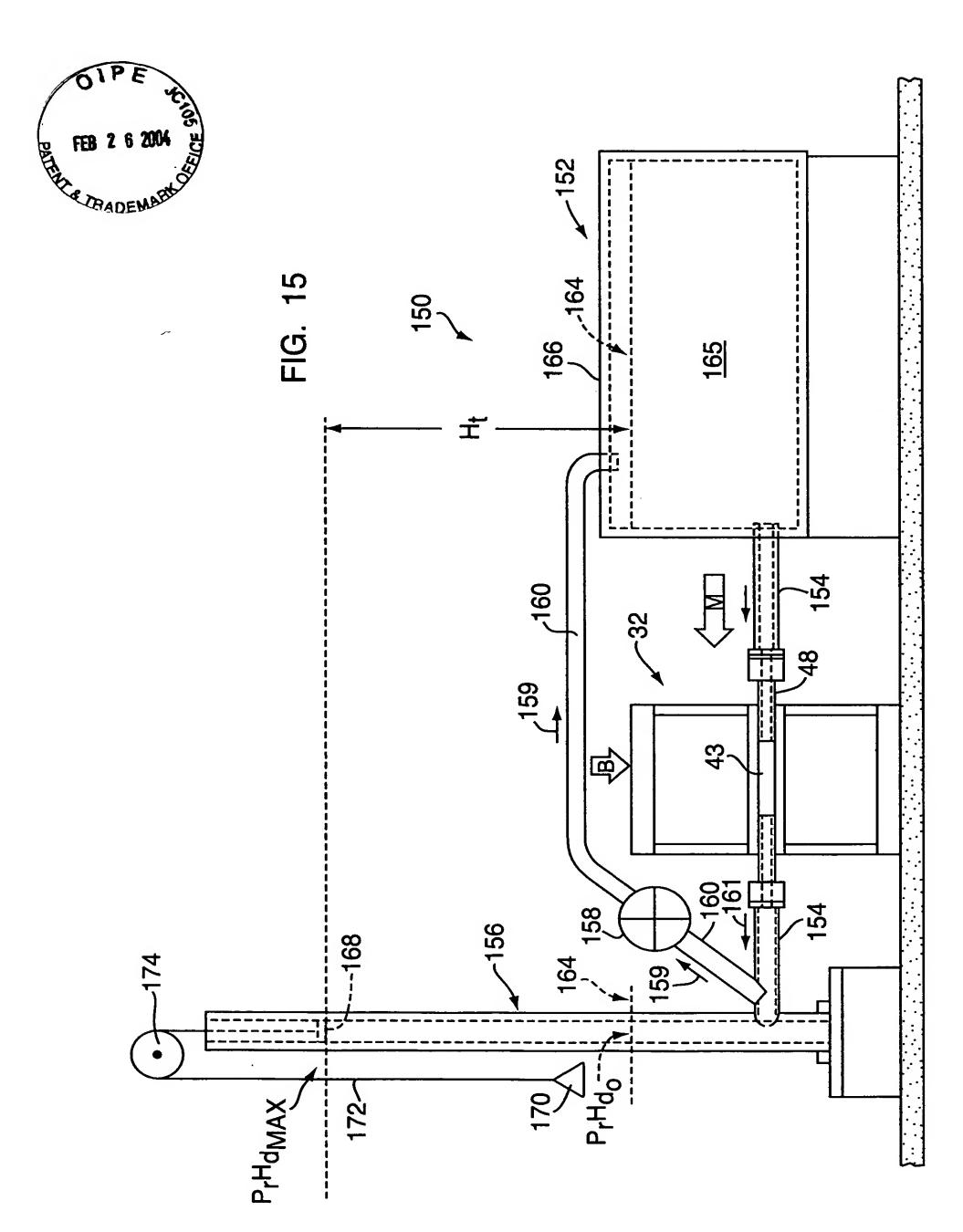


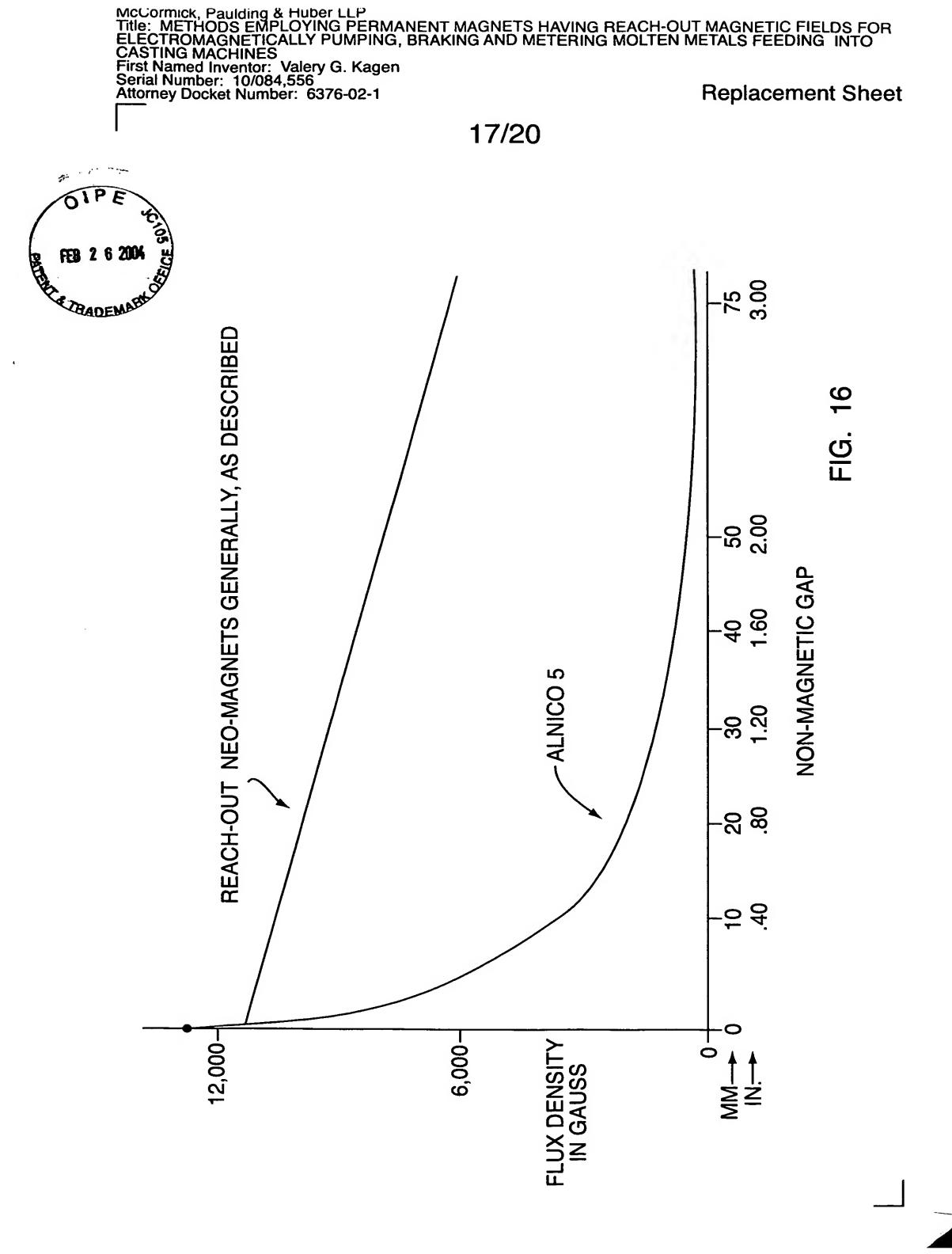
MICCORMICK, Pauliding & Fluber LLP
Title: METHODS EMPLOYING PERMANENT MAGNETS HAVING REACH-OUT MAGNETIC FIELDS FOR ELECTROMAGNETICALLY PUMPING, BRAKING AND METERING MOLTEN METALS FEEDING INTO CASTING MACHINES
First Named Inventor: Valery G. Kagen
Serial Number: 10/084,556
Attorney Docket Number: 6376-02-1

Replacement Sheet Replacement Sheet 14/20 56' S THE PADENARY FEB 2 6 2004 s <u>56</u> S N <u>56</u> N Ν 87 <u>56</u> S FIG. 13A <u>56"</u> S S 56 N S Ν <u>92</u> 56 N S FIG. 13B N S 87 S <u>97</u> FIG. 13C



Replacement Sheet





McCormick, Paulding & Huber LLP
Title: METHODS EMPLOYING PERMANENT MAGNETS HAVING REACH-OUT MAGNETIC FIELDS FOR ELECTROMAGNETICALLY PUMPING, BRAKING AND METERING MOLTEN METALS FEEDING INTO CASTING MACHINES
First Named Inventor: Valery G. Kagen
Serial Number: 10/084,556
Attorney Docket Number: 6376-02-1

Replacement Sheet Replacement Sheet OTPE 18/20 THE THADEMARK 567 S 56 87 96 FIG. 17 96 S Z Z S 95 95 Z S Z 87 87 96 56 ဟ Z

McCormick, Paulding & Huber LLP
Title: METHODS EMPLOYING PERMANENT MAGNETS HAVING REACH-OUT MAGNETIC FIELDS FOR ELECTROMAGNETICALLY PUMPING, BRAKING AND METERING MOLTEN METALS FEEDING INTO CASTING MACHINES
First Named Inventor: Valery G. Kagen
Serial Number: 10/084,556
Attorney Docket Number: 6376-02-1

Replacement Sheet Replacement Sheet 19/20 THE MADEMARY FEB 2 6 2004 В **32**J 56 180N N Ŋ N 56-N 56 74 N **50J** N N <u>48J</u> 67 S 66 74

S

S

FIG. 18

S

56

56

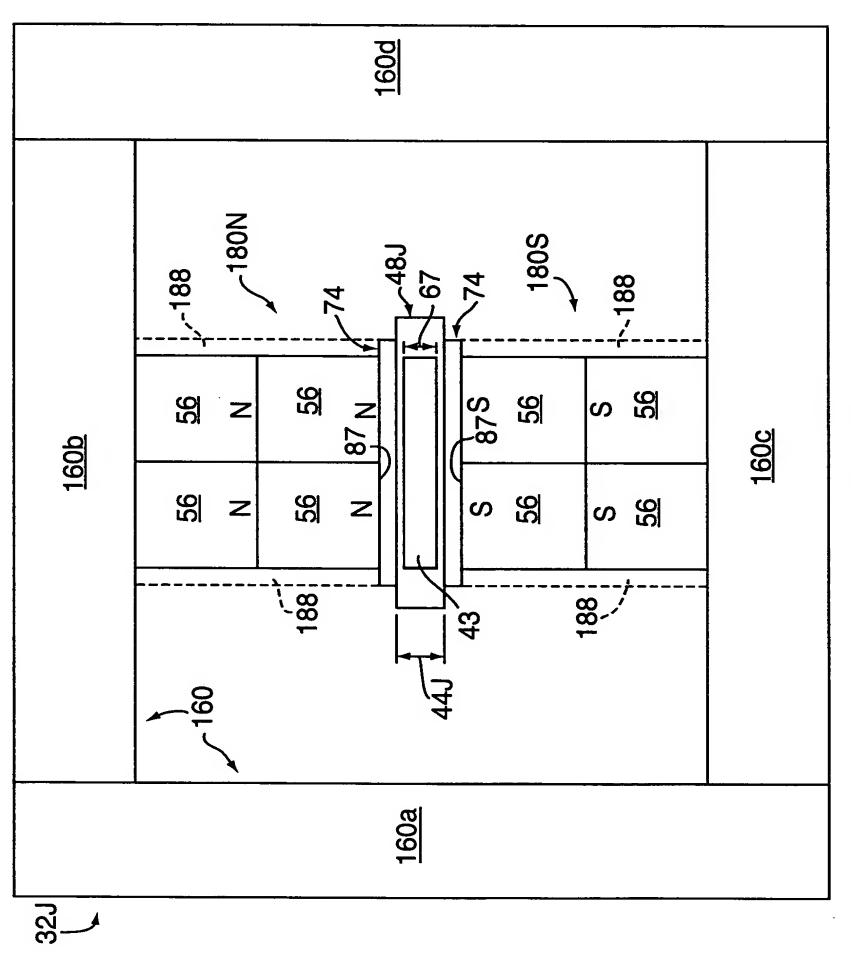
**180S** 

43

Replacement Sheet

20/20





19 FIG.